

**AMENDMENT**

Kindly amend the application, without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents.

**In the Specification:**

Please amend the specification without prejudice, without admission, without surrender of subject matter, and without any intention of creating any estoppel as to equivalents, to read as follows:

Please delete the paragraph on page 4, line 21, to page 5, line 2, and replace it with the following paragraph:

The present invention also relates to peptides identified using the method of the invention and in particular to a peptide comprising a sequence selected from the group of sequences:

Met-Thr-Met-Pro-Thr-Met **(SEQ ID NO: 1)**;

Pro-Leu-Pro-Gln-Met-Leu **(SEQ ID NO: 2)**; and

Thr-Asn-Pro-Asn-Arg-Arg-Asn-Arg-Thr-Pro-Gln-Met-Leu-Lys-Arg **(SEQ ID NO: 3)**;

or a functional variant thereof.

Please delete the paragraph on page 12, lines 10-15, and replace it with the following paragraph:

The peptides of the invention adapted to bind to A $\beta$  include a peptide comprising a sequence selected from the group of sequences:

(i) Met-Thr-Met-Pro-Thr-Met **(SEQ ID NO: 1)**;

(ii) Pro-Leu-Pro-Gln-Met-Leu **(SEQ ID NO: 2)**; and

(iii) Thr-Asn-Pro-Asn-Arg-Arg-Asn-Arg-Thr-Pro-Gln-Met-Leu-Lys-Arg **(SEQ ID NO: 3)**;

or a functional variant thereof.

Please delete the paragraph on page 17, line 25, to page 18, line 8, and replace it with the following paragraph:

Another approach is to include a metal-ion complexing backbone in the peptide structure.

Typically, the preferred metal-peptide backbone is based on the requisite number of particular coordinating groups required by the coordination sphere of a given complexing metal ion. In general, most of the metal ions that may prove useful have a coordination number of four to six.

The nature of the coordinating groups in the peptide chain includes nitrogen atoms with amine, amide, imidazole, or guanidino functionalities; sulfur atoms of thiols or disulfides; and oxygen atoms of hydroxy, phenolic, carbonyl, or carboxyl functionalities. In addition, the peptide chain or individual amino acids can be chemically altered to include a coordinating group, such as for example oxime, hydrazino, sulfhydryl, phosphate, cyano, pyridino, piperidino, or morpholino.

The peptide construct can be either linear or cyclic, however a linear construct is typically preferred. One example of a small linear peptide is Gly-Gly-Gly-Gly (**SEQ ID NO: 4**) that has four nitrogens (an N<sub>4</sub> complexation system) in the backbone that can complex to a metal ion with a coordination number of four.

Please delete the paragraph on page 23, line 9, to page 24, line 4, and replace it with the following paragraph:

Sequences of three candidates A $\beta$  binding peptides isolated using the above protocol are:

**(SEQ ID NO: 1)**

- Peptide 1: H-Met-Thr-Met-Pro-Thr-Met-OH (Three letter code)  
(6-mer) H- M T M P T M - OH (Single letter code)

**(SEQ ID NO: 2)**

- Peptide 2: H- Pro-Leu-Pro-Gln-Met-Leu - OH (Three letter code)  
(6-mer) H- P L P Q M L - OH (Single letter code)

**(SEQ ID NO: 3)**

- Peptide 3: H- Thr-Asn-Pro-Asn-Arg-Arg-Asn-Arg-Thr-Pro-Gln-Met-Leu-Lys-Arg-OH (Three letter code)

(15-mer) H- T N P N R R N R T P Q M L K R-OH

(Single letter code)

Please delete the paragraph on page 28, line 31, to page 29, line 4, and replace it with the following paragraph:

27. A peptide comprising a sequence selected from the group of sequences:

(i) Met-Thr-Met-Pro-Thr-Met **(SEQ ID NO: 1)**;

(ii) Pro-Leu-Pro-Gln-Met-Leu **(SEQ ID NO: 2)**; and

(iii) Thr-Asn-Pro-Asn-Arg-Arg-Asn-Arg-Thr-Pro-Gln-Met-Leu-Lys-Arg **(SEQ ID NO: 3)**;

or a functional variant thereof.

Please insert the enclosed papers entitled "Sequence Listing" after the last page of the specification and before the first page of the claims, i.e. between pages 31 and 32.